

CLASS NUMBER AND NAME:	<b>CSN395- Linux in the Enterprise</b>
TOTAL HOURS/UNITS:	72 Hours /5.0 Units
PREREQUISITES:	CSN385-Linux Security, Ethics, and Privacy
TEXTS AND MATERIALS:	<i>Linux + Guide to Linux Certification Third Edition</i> <i>Jason W. Eckert.</i> <i>Course Technology Cengage Learning.</i> (ISBN 9781133500384)  <i>RHCSA/RHCE Red Hat Linux Certification Study Guide</i> <i>Michael Jang</i> <i>McGraw Hill</i> (ISBN 9780071765657)
CLASS DESCRIPTION:	A combination of lecture and lab exercises introducing the student to the use of Linux in an Enterprise environment. Students learn to troubleshoot Enterprise related problem and use remote installation services
CLASS OBJECTIVES:	To provide the student with advanced knowledge of Red Hat Linux and/or other Linux/Unix based operating systems in an enterprise environment. This class will prepare the student for both the RHCSA and RHCE exams.
CLASS FORMAT OVERVIEW:	This class is a combination of lecture and lab.  Time spent in preparation for or reflection on course lecture will approximate two hours outside of class for each lecture credit hour utilized by the instructor in delivery of the material and ¼ hour outside of class for each hour of structured lab time.

**METHODS OF INSTRUCTION:**

As lecture and lab are the principal means of instruction, it will be expected that all students will be present every day to take part in class.

Students are required to read and complete chapter review questions prior to lectures. Upon completion of lectures, the homework will be reviewed and discussed in class. All work submitted must be typewritten. No handwritten material will be accepted. Excuses are frowned upon – Solutions are encouraged!

Students should be aware that a reasonable effort at note taking is a requirement in this class. The main goal of this class is for you to learn basic vocabulary, concepts and skills. Some newer material is not in the text at all; some of the concepts in the text may be difficult to grasp until someone explains them to you. Therefore, note taking is essential. A student binder is highly recommended, as a great deal of printed material will be distributed throughout the course.

**CLASS ATTENDANCE:**

It is **CRITICAL** to the student's success to attend class every day and that all exercises and projects be completed on time. Attendance will be taken 15 minutes after the beginning of class. *A Student who is not present at this time will be marked absent from the class for that day.* Attendance counts towards a major portion of your grade – please notify your instructor in advance if you need to be absent.

A student with more than five absences (less than 80% attendance) will receive an automatic grade of F in the class. This grade can only be corrected by retaking this class.

**TESTING:**

There is only one test in this class in the form of a final project.

**LATE TESTING:**

**There is NO late testing or re-takes.** You must attend the day of the test. If you know you will be absent you must make arrangements *in advance*.

**GRADING POLICIES:**

The grading system for this module consists of the following:

Attendance -----	15%
Documentation-----	10%
Tasks-----	20%
Trouble Shooting-----	20%
End of module final-----	35%

**FINAL GRADE:**

Combined grades from attendance, class participation, exercises, weekly quiz attitude and module final will be graded on the following scale:

- 90 – 100% = A
- 80 – 89 % = B
- 70 – 79 % = C
- 60 - 69 % = D
- 50- 59 % = F

**ANTICIPATED LEARNING  
OUTCOMES:**

Upon completing this course, the student will be able to:

1. Configure the X Windows System for computers.
2. Understand and configure the Boot Process
3. Manage Users and Groups
4. Administer the system.
5. Recompile a Linux Kernel
6. Use Shells and Scripts.

**Six Week Schedule**

Week 1 Planning and Documenting an enterprise network

Week 2 Installing and configuring network servers

Week 3 Installing and configuring network servers

Week 4 Connecting Client machines to a network

Week 5 Common network tasks

Week 6 Troubleshooting network problems